Higher Education Research Council

Presentation to the Joint Finance-Appropriations Committee

Mark Rudin, Chair
January 30, 2015

STATE of IDAHO
BOARD of EDUCATION

BOISE STATE UNIVERSITY

Idaho State UNIVERSITY

University of **Idaho**
A LEGACY OF LEADING

Lewis-Clark STATE COLLEGE

Higher Education Research Council (HERC) Mission

……strengthen the research capabilities at Idaho's public, four-year institutions and contribute to the economic development of the state of Idaho.

HERC Membership

Higher Education Representatives
Dr. Howard Grimes, Idaho State University

Dr. Jack McIver, University of Idaho

Dr. Mark Rudin (Chair), Boise State University

Dr. Lori Stinson, Lewis and Clark State College

HERC Membership

Industry Representatives
Dr. Haven Baker, JR Simplot Co.

Mr. Kelly Beierschmitt, Idaho National Laboratory

Mr. Bill Canon, Valmark Interface Solutions

Robin Woods, Alturas Analytics

HERC Initiatives

Research Infrastructure

Incubation Fund Grant Program
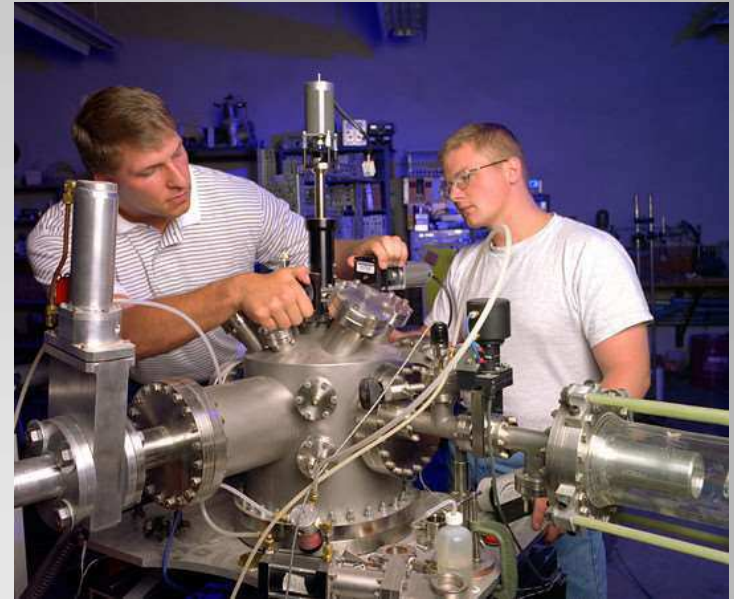
Center for Advanced Energy Studies (CAES)

NSF-EPSCoR Matching Funds

HERC IGEM Projects

HERC Research Infrastructure

- **Funding to support science, engineering, and other research infrastructure**

- **Uses of funds in FY15 – library support, graduate research assistantships, start up packages for new faculty, lab technician support, etc.**

- **FY15 Allocation = $500k**
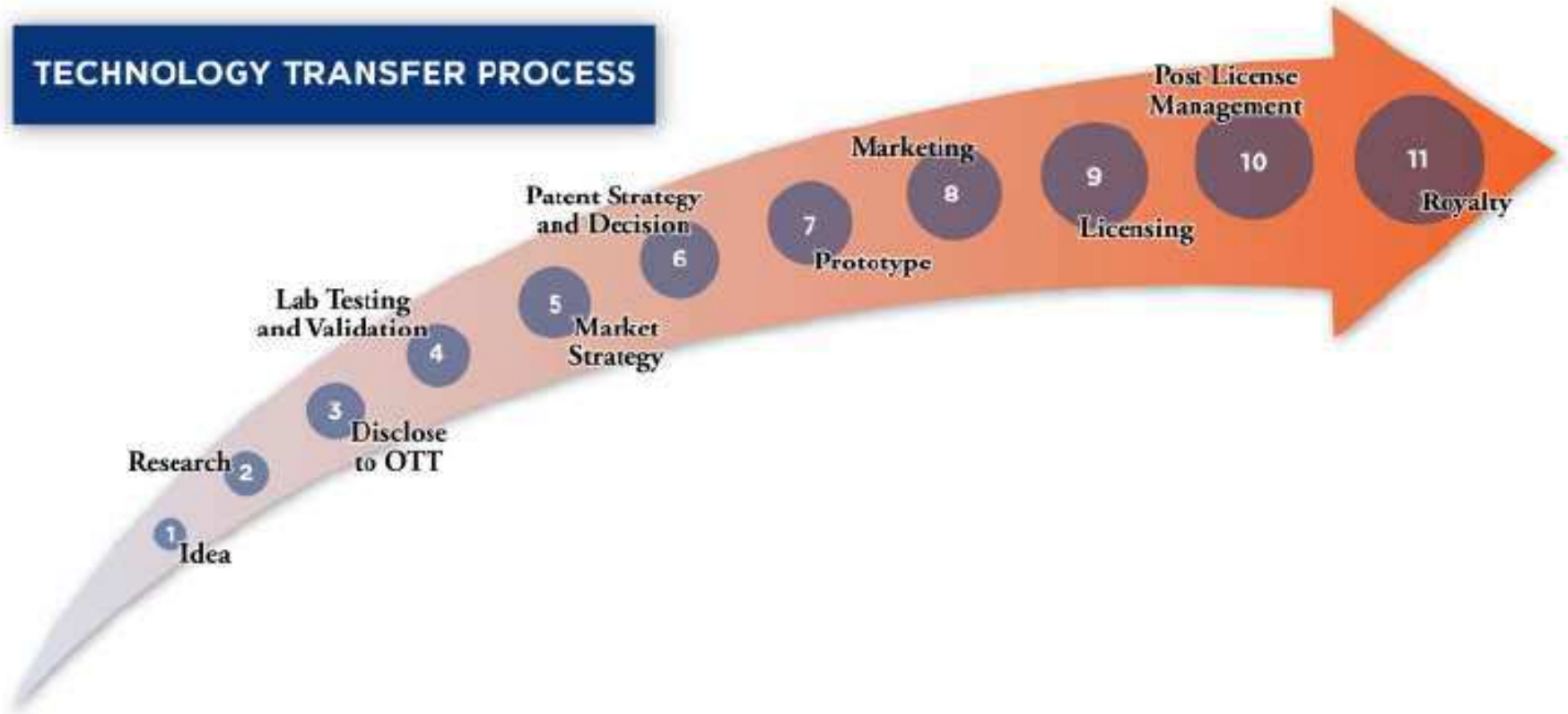
- **FY16 Governor recommends an additional $325k**

HERC Incubation Fund Grant Program

- **Competitive grant program initiated in FY11**

- **Projects funded up to $50K**

- **33 projects funded**
  - **- 47 faculty/78 students involved**
  - **- 3 licenses**
  - **- 3 company startups (Native Roots, MJ3 Technologies, Ruckus Fermentation)**
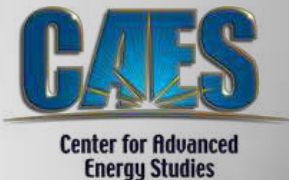
- **FY15 Allocation = $333k**

STATE of IDAHO
BOARD of EDUCATION

HERC Incubation Fund Grant Program (cont'd)

Center for Advanced Energy Studies (CAES)

- **In 7 years:**
  - **$75M in competitively won R&D associated with CAES**
  - **372 graduate degrees from CAES-related activities**
  - **860 graduate students sponsored by CAES-related activities**
  - **2,660 visitors to CAES 3D data immersion lab**

- **In FY14:**
  - **$3M in State of Idaho support**
  - **$4.6M in combined University and INL operations and infrastructure funding**
  - **$750K in User Fees through MaCS**
  - **$15.5M in research program funding**

HERC Initiatives

Research Infrastructure

Incubation Fund Grant Program

Center for Advanced Energy Studies (CAES)

NSF-EPSCoR Matching Funds

HERC IGEM Projects

University of Idaho
Cyber Security Faculty Cluster

University of Idaho
Cyber Security Faculty Cluster

- **Enhance cybersecurity expertise to support issues facing Idaho and the nation**
- **Focus on critical information infrastructure, human factors and support for secure software development in transportation and power grid fields**
- **Provide educational opportunities for university students through increased external funding**

University *of* Idaho
A LEGACY OF LEADING

University of Idaho
Cyber Security Faculty Cluster

Accomplishments to Date:

- **Development of software security testing laboratory**
- **Hosted 2 cybersecurity workshops and several seminars for private sector and government**
- **Funded 30 students. Had 15 faculty participants.**
- **IGEM Funded faculty brought in over $1.7M in new funding since start of IGEM grant**

University *of* Idaho
A LEGACY OF LEADING

Idaho State University Production of ^{67}Cu

Idaho State University Production of ^{67}Cu

- **Create novel commercial method of producing a needed isotope**

- **Establish infrastructure for additional isotopes and materials**

Idaho State
UNIVERSITY

Idaho State University Production of ^{67}Cu

Accomplishments to Date:

- **Developed an economic process for production**

- **Achieved NRC production and distribution license**

- **Ready for sample shipments to researchers**

Idaho State
UNIVERSITY

Boise State University Computer Science Expansion

Boise State University Computer Science Expansion

- **Produce more CS grads to support local and state-wide industry**

- **Increase industry partnerships**

- **Increase CS grant funding and spur economic growth in high tech sector**

BOISE STATE UNIVERSITY

Boise State University Computer Science Expansion

Accomplishments to Date:

- **Will approximately double the number of computer science graduates in May 2015 - ~90% of these graduates are expected to gain employment in Idaho**

- **Industry representatives are involved in curriculum development, student retention, and have been recruited to teach CS courses**

- **External funding increased from $60K/year to $2.7M in FY14**

Thank You…….Questions?